

Use of 2,4-D on Genetically Modified Crops

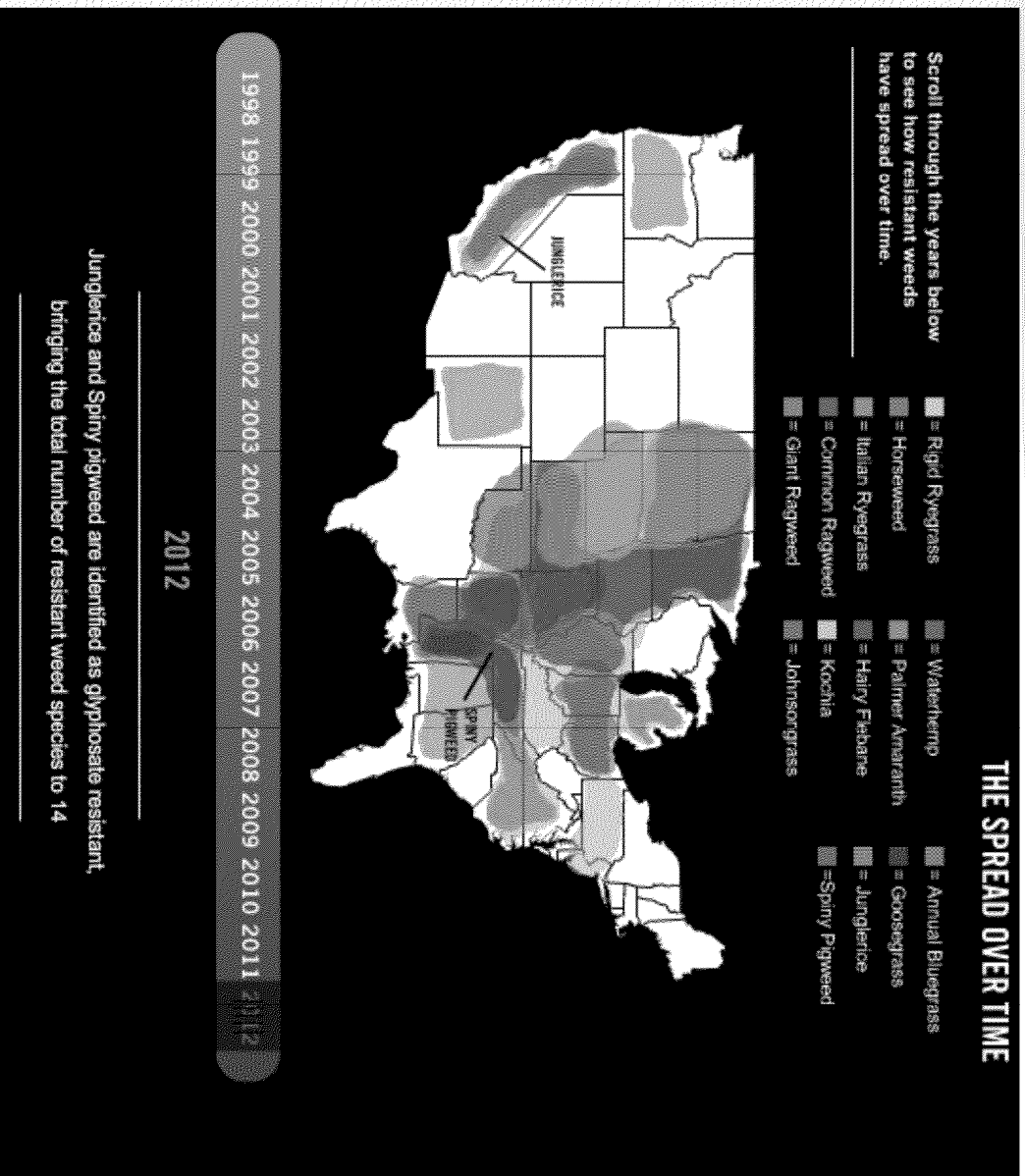
November 26, 2013



Background

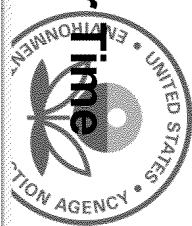
- Herbicide-resistant weeds are an increasing problem
 - Resistance to glyphosate has become a significant economic issue to growers
 - Need for additional tools to manage resistant weeds
 - New herbicide tolerance genes allow crops to be treated with additional herbicide mechanisms of action

Current Location of Glyphosate Resistant Weeds

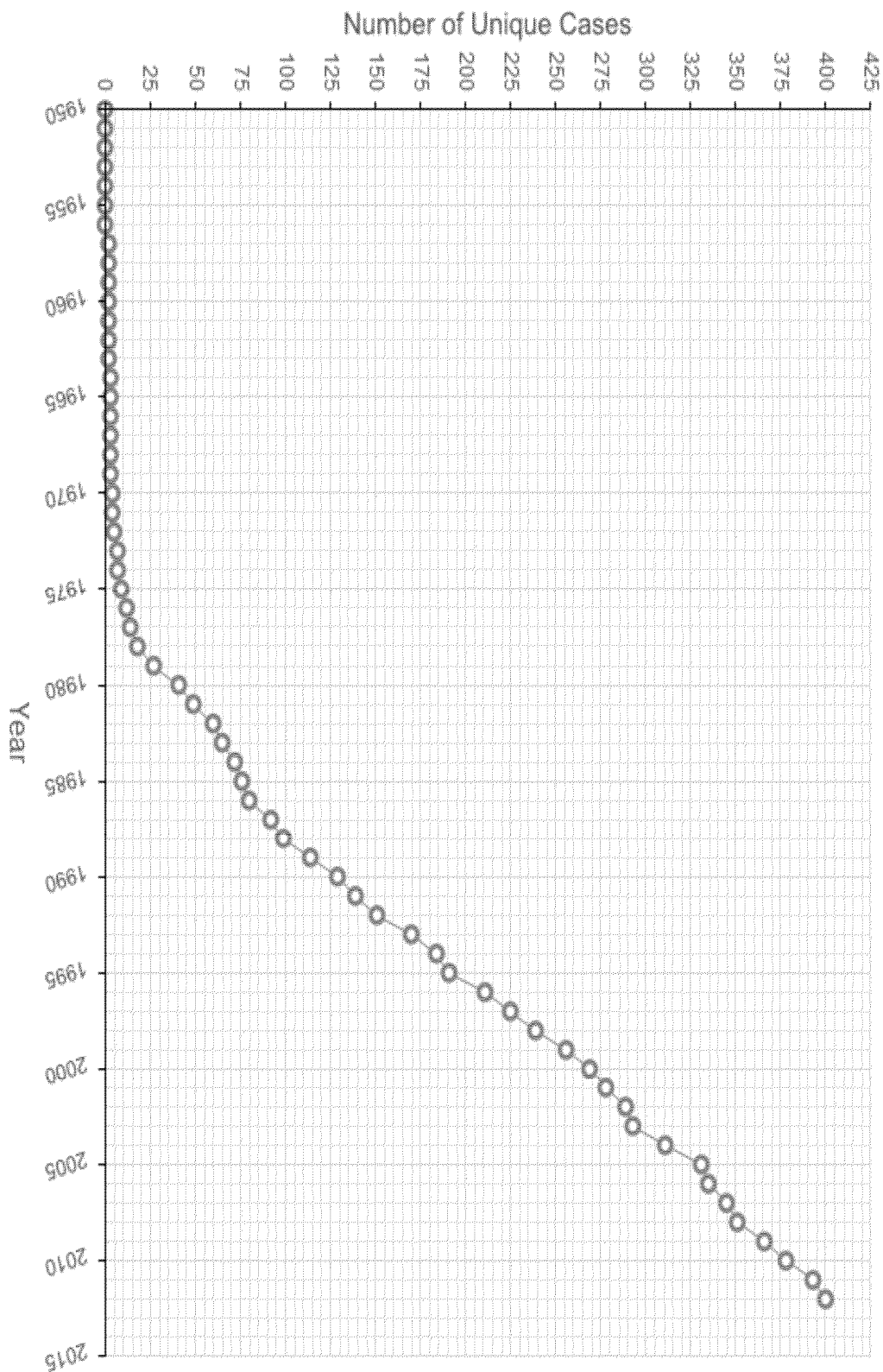


From: <http://www.resistancefighter.com/news.aspx>

Global Increase in Resistant Weeds Over Time



Chronological Increase in Resistant Weeds Globally



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USDA and EPA Coordinated Effort

- **USDA reviews information on the gene conferring tolerance to the plant (deregulation decision for seed)**
 - **Complies with requirements of NEPA**
 - **Authority to deregulate through the Plant Protection Act**
- **EPA reviews information on the effects of the herbicide on humans and the environment (registration decision for herbicide use)**
- **Agencies share information to inform and strengthen both regulatory decisions**

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